

*all headings
are in
upper-case letters*

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 GENERAL INFORMATION: SEQUENCE LISTING

2 (1) General Information

Does Not Comply
Corrected Diskette Needed

--> 5 (i) APPLICANT: *↑ moved up - all responses must*

--> 6 (A) NAME: Boehringer Mannheim GmbH *be on same line as heading*

--> 7 (B) STREET: Sandhofer Str. 112-132

--> 8 (C) CITY: Mannheim

--> 9 (E) COUNTRY: Germany

--> 10 (F) POSTAL CODE: 68305

delete

12 (ii) TITLE OF INVENTION: Fanconi-gene II

14 (iii) NUMBER OF SEQUENCES: 2

16 (v) COMPUTER READABLE FORM:

17 (A) MEDIUM TYPE: Floppy disk

18 (B) COMPUTER: IBM PC compatible

19 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

20 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

6.1 CORRESPONDENCE ADDRESS:
(A) ADDRESSEE
(B) STREET:
(C) CITY:
(D) STATE:
(E) COUNTRY:
(F) ZIP:

(EPO)

22 (vi) CURRENT APPLICATION DATA:

23 (A) APPLICATION NUMBER: US/09/977,801

24 (B) FILING DATE:

27 (vii) PRIOR APPLICATION DATA:

28 (A) APPLICATION NUMBER: US/09/402,632

29 (B) FILING DATE:

(A) APPLICATION NUMBER:
(B) FILING DATE:

*insert these
mandatory
headings for
a U.S. case*

33 (2) INFORMATION FOR SEQ ID NO: 1:

35 (i) SEQUENCE CHARACTERISTICS:

36 (A) LENGTH: 1026 base pairs

37 (B) TYPE: nucleic acid

38 (C) STRANDEDNESS: both

39 (D) TOPOLOGY: linear

41 (ix) FEATURE:

42 (A) NAME/KEY: CDS

43 (B) LOCATION: 256..924

45 (ix) FEATURE:

46 (A) NAME/KEY: CDS

*EPO format is
invalid for
U.S. cases*

RAW SEQUENCE LISTING PATENT APPLICATION US/10/022,366

DATE: 01/17/2002
TIME: 06:57:44

INPUT SET: S36723.raw

47 (B) LOCATION: 430..924
48
49 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
50
51 TTTCACCGTC TAGAGGCATA AGAGGTGAGC CCGTGCTCTT CAGCGGAGAA GATCCCCTAC 60
52
53 CTGGCCGCCG GCCACTTTCT GTGGGCCGTG GGGTCCTCAA GGAGACGGCC CTTGGGCTCA 120
54
55 GGGGCTGCGT TTCCACACGC GCCTTTCCCA GGGCTCCCGC GCCCGTTCCT GCCTGGCCGC 180
56
57 CGGCCGCTCC AACAGCAGCA CAAGGCGGGA CTCAGAACCG GCGTTCAGGG CCGCCAGCGG 240
58
59 CCGCGAGGCC CTGAG ATG AGG CTC CAA AGA CCC CGA CAG GCC CCG GCG GGT 291
60 Met Arg Leu Gln Arg Pro Arg Gln Ala Pro Ala Gly
61 1 5 10
62
63 GGG AGG CGC GCG CCC CGG GGC GGG CGG GGC TCC CCC TAC CGG CCA GAC 339
64 Gly Arg Arg Ala Pro Arg Gly Gly Arg Gly Ser Pro Tyr Arg Pro Asp
65 15 20 25
66
67
68 CCG GGG AGA GGC GCG CGG AGG CTG CGA AGG TTC CAG AAG GGC GGG GAG 387
69 Pro Gly Arg Gly Ala Arg Arg Leu Arg Arg Phe Gln Lys Gly Gly Glu
70 30 35 40
71
72 GGG GCG CCG CGC GCT GAC CCT CCC TGG GCA CCG CTG GGG ACG ATG GCG 435
73 Gly Ala Pro Arg Ala Asp Pro Pro Trp Ala Pro Leu Gly Thr Met Ala
74 45 50 55 60
75
76 CTG CTC GCC TTG CTG CTG GTC GTG GCC CTA CCG CGG GTG TGG ACA GAC 483
77 Leu Leu Ala Leu Leu Leu Val Val Ala Leu Pro Arg Val Trp Thr Asp
78 65 70 75
79
80 GCC AAC CYG ACT GCG AGA CAA CGA GAT CCA SAG GAC TCC CAG CGA ACG 531
81 Ala Asn Xaa Thr Ala Arg Gln Arg Asp Pro Xaa Asp Ser Gln Arg Thr
82 80 85 90
83
84 GAC GAG GGT GAC AAT AGA GTG TGG TGT CAT GTT TGT GAG AGA GAA AAC 579
85 Asp Glu Gly Asp Asn Arg Val Trp Cys His Val Cys Glu Arg Glu Asn
86 95 100 105
87
88 ACT TTC GAG TGC CAG AAC CCA AGG AGG TGC AAA TGG ACA GAG CCA TAC 627
89 Thr Phe Glu Cys Gln Asn Pro Arg Arg Cys Lys Trp Thr Glu Pro Tyr
90 110 115 120
91
92 TGC GTT ATA GCG GCC GTG AAA ATA TTT CCA CGT TTT TTC ATG GTT GCG 675
93 Cys Val Ile Ala Ala Val Lys Ile Phe Pro Arg Phe Phe Met Val Ala
94 125 130 135 140
95
96 AAG CAG TGC TCC GCT GGT TGT GCA GCG ATG GAG AGA CCC AAG CCA GAG 723
97 Lys Gln Cys Ser Ala Gly Cys Ala Ala Met Glu Arg Pro Lys Pro Glu
98 145 150 155
99

RAW SEQUENCE LISTING PATENT APPLICATION US/10/022,366

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100  GAG AAG CGG TTT CTC CTG GAA GAG CCC ATG CCC TTC TTT TAC CTC AAG      771
101  Glu Lys Arg Phe Leu Leu Glu Glu Pro Met Pro Phe Phe Tyr Leu Lys
102  160 165 170
103
104  TGT TGT AAA ATT CGC TAC TGC AAT TTA GAG GGG CCA CCT ATC AAC TCA      819
105  Cys Cys Lys Ile Arg Tyr Cys Asn Leu Glu Gly Pro Pro Ile Asn Ser
106  175 180 185
107
108  TCA GTG TTC AAA GAA TAT GCT GGG AGC ATG GGT GAG AGC TGT GGT GGG      867
109  Ser Val Phe Lys Glu Tyr Ala Gly Ser Met Gly Glu Ser Cys Gly Gly
110  190 195 200
111
112  CTG TGG CTG GCC ATC CTC CTG CTG CTG GCC TCC ATT GCA GCC GGC CTC      915
113  Leu Trp Leu Ala Ile Leu Leu Leu Leu Ala Ser Ile Ala Ala Gly Leu
114  205 210 215 220
115
116  AGC CTG TCT TGAGCCACGG GACTGCCACA GACTGAGCCT TCCGGAGCAT      964
117  Ser Leu Ser
118
119
120  GGACTCGCTC CAGACCGTTG TCACCTGTTG CATTAACTT GTTTTCTGTT GAAAAAAAAA 1024
121
122  AA 1026
123
124
125  (2) INFORMATION FOR SEQ ID NO: 2:
126
127      (i) SEQUENCE CHARACTERISTICS:
128          (A) LENGTH: 223 amino acids
129          (B) TYPE: amino acids
130          (D) TOPOLOGY: linear
131
132      (ii) MOLECULE TYPE: protein
133
134      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
135
136
137  Met Arg Leu Gln Arg Pro Arg Gln Ala Pro Ala Gly Gly Arg Arg Ala
138      1 5 10 15
139
140  Pro Arg Gly Gly Arg Gly Ser Pro Tyr Arg Pro Asp Pro Gly Arg Gly
141      20 25 30
142
143  Ala Arg Arg Leu Arg Arg Phe Gln Lys Gly Gly Glu Gly Ala Pro Arg
144      35 40 45
145
146  Ala Asp Pro Pro Trp Ala Pro Leu Gly Thr Met Ala Leu Leu Ala Leu
147      50 55 60
148
149  Leu Leu Val Val Ala Leu Pro Arg Val Trp Thr Asp Ala Asn Xaa Thr
150      65 70 75 80
151
152  Ala Arg Gln Arg Asp Pro Xaa Asp Ser Gln Arg Thr Asp Glu Gly Asp
  
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RAW SEQUENCE LISTING
PATENT APPLICATION US/10/022,366

 DATE: 01/17/2002
 TIME: 06:57:44
INPUT SET: S36723.raw

153		85		90		95
154						
155	Asn Arg Val Trp Cys His Val Cys Glu Arg Glu Asn Thr Phe Glu Cys					
156		100		105		110
157						
158	Gln Asn Pro Arg Arg Cys Lys Trp Thr Glu Pro Tyr Cys Val Ile Ala					
159		115		120		125
160						
161	Ala Val Lys Ile Phe Pro Arg Phe Phe Met Val Ala Lys Gln Cys Ser					
162		130		135		140
163						
164	Ala Gly Cys Ala Ala Met Glu Arg Pro Lys Pro Glu Glu Lys Arg Phe					
165		145		150		155
166						160
167	Leu Leu Glu Glu Pro Met Pro Phe Phe Tyr Leu Lys Cys Cys Lys Ile					
168		165		170		175
169						
170	Arg Tyr Cys Asn Leu Glu Gly Pro Pro Ile Asn Ser Ser Val Phe Lys					
171		180		185		190
172						
173	Glu Tyr Ala Gly Ser Met Gly Glu Ser Cys Gly Gly Leu Trp Leu Ala					
174		195		200		205
175						
176	Ile Leu Leu Leu Leu Ala Ser Ile Ala Ala Gly Leu Ser Leu Ser					
177		210		215		220
178						
179						
180						
181						

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/10/022,366DATE: 01/17/2002
TIME: 06:57:45**INPUT SET: S36723.raw**

Line	Error	Original Text
5	Mandatory Value Not Present	(i) APPLICANT:
6	Unknown or Misplaced Identifier	(A) NAME: Boehringer Mannheim GmbH
7	Unknown or Misplaced Identifier	(B) STREET: Sandhofer Str. 112-132
8	Unknown or Misplaced Identifier	(C) CITY: Mannheim
9	Unknown or Misplaced Identifier	(E) COUNTRY: Germany
10	Unknown or Misplaced Identifier	(F) POSTAL CODE: 68305
23	Wrong application Serial Number	(A) APPLICATION NUMBER:US/09/977,801

PAGE: 1

SEQUENCE MISSING ITEM REPORT
PATENT APPLICATION US/10/022,366

DATE: 01/17/2002
TIME: 06:57:45

INPUT SET: S36723.raw

ADDRESSEE
STREET
CITY
STATE
COUNTRY
ZIP
CORRESPONDENCE ADDRESS
CLASSIFICATION